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**TITLE:** FLUIDIZED BED DEVICE  
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**INVENTOR-INFORMATION:**

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**INT-CL (IPC):** F23C011/02 , F23C009/08

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**ABSTRACT:**

**PURPOSE:** To enable a rapid control over a fluidized bed temperature by a method wherein discharging gas of which flow rate is adjusted with a damper is fed to an air chamber through a gas recirculation line and the discharging gas of which temperature is lower than the fluidized bed temperature is fed into the fluifized bed together with the air fed from the air chamber.

CONSTITUTION: A partial discharging gas before it is entered into an air preheating unit 8 is supplied into the air passage 12 with its flow rate being adjusted by the damper 22 from the gas recirculation line 20 via gas recirculation fan 21. The discharged gas supplied into the air passage 12 is mixed with the air, passes through the air chamber 4 together with the air and then injected into the fluidized bed 3 through a nozzle. The temperature is sensed by a temperature sensor 18, the sensed value is compared with a desired temperature to define a difference value, a degree of opening of the damper 22 is controlled in response to the difference value and the volume of discharging gas mixed with the air is adjusted. The discharging gas of which volume is adjusted is injected into the fluidized bed 3. Since the temperature of the discharging gas is lower than that in the fluidized bed, the temperature in the fluidized bed 3 is decreased. When the amount of discharged gas is increased, a rate of decreasing in temperature is increased and in turn as the amount of discharged gas is decreased, the rate of decreased temperature is reduced.

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